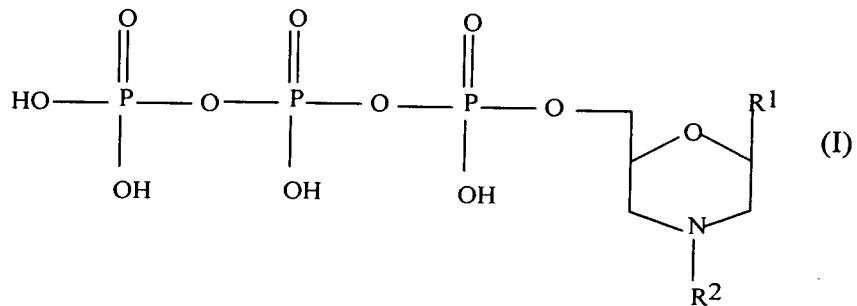


ABSTRACT

The invention relates to the use of morpholino-nucleosides of formula:



in which R^1 represents a nucleic base and R^2 represents a group corresponding to one of the following formulae:

- | | |
|--------------------|-------------------|
| $-(CH_2)_n-NH_2$ | $-(CH_2)_n-SH$ |
| $-(CH_2)_n-COOH$ | $-(CH_2)_n-OH$ |
| $-(CH_2)_n-NH-R^3$ | $-(CH_2)_n-S-R^3$ |
| $-(CH_2)_n-CO-R^3$ | $-(CH_2)_n-OR^3$ |

in which n is an integer ranging from 1 to 12 and R^3 is a group derived from a label, from a protein, from an enzyme, from a fatty acid or from a peptide, as chain terminators in a process of DNA or RNA sequencing by the Sanger method, or for the labelling of DNA or RNA fragments.